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APPLICATION N	√O.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,375		11/15/2001	Adrian E. Ong	M-9433 US	4697	
27869	7590	02/24/2004		EXAM	EXAMINER	
	EMBARCA		NGUYEN	NGUYEN, TUNG X		
THREE EMBARCADERO CENTER, 28TH FLOOR SAN FRANCISCO, CA 94111				ART UNIT	PAPER NUMBER	
				2829		
				DATE MAIL ED: 02/24/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		N/					
	Application No.	Applicant(s)					
	10/003,375	ONG, ADRIAN E.					
Office Action Summary	Examiner	Art Unit					
	Tung X Nguyen	2829					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 18 No.	<u>ovember 2003</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
	- ' '						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-38</u> is/are pending in the application.	Claim(s) <u>1-38</u> is/are pending in the application.						
4a) Of the above claim(s) <u>18-27 and 29-32</u> is/ar	4a) Of the above claim(s) 18-27 and 29-32 is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-10 and 33-38</u> is/are allowed.	Claim(s) <u>1-10 and 33-38</u> is/are allowed.						
6) Claim(s) <u>11-17, 28</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the priorical supplication from the International Bureau 	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
2)		ate Patent Application (PTO-152)					

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DETAILED ACTION

1. The amendment filed on 11/18/03 has been entered and made of record as paper number 1103. Claims 1-17, 28, 33-38 are pending.

2. Claims 18-27, and 29-32 are required to cancel as belonging to a non-elected invention requirement in Paper No. 4, when the case is in the condition ready for allowance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 11-17, 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeuchi (u.s.p 4,743,841).

As to claim 11, Takeuchi discloses in Figs. 1-4, an integrated circuit comprising a test pad (32, 33 of figures 1) and plurality of bond pads (31 of figure 1) wherein the bond pad associated with a respective portion of the function circuitry (8, 9 of figure 1); wherein the test pad contacting with a probe needle (col. 4, lines 52-55); and a signal transmitting from the probe to at least one respective portions of functional circuitry to be tested; wherein the bond pad without any contacting with the test probe.

As to claims 12-14, Takeuchi discloses in Figs. 1-4, an integrated circuit (fig. 1) wherein the signal is input from the probe needle (30, 32, 33 of fig. 1) and

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demultiplexing and/or multiplexing the input signal into the portions of the function circuitry (8, 9 of figure 1).

As to claim 15, 16, Takeuchi discloses in Figs. 1-4, an integrated circuit (fig. 1) wherein the test pad (32, 33 of figure 1) is a bonding pad and/or probe pad.

As to claim 17, Takeuchi discloses in Figs. 1-4, an integrated circuit (fig. 1) wherein the test pad is located on the integrated circuit die (32, 33 of fig. 1) remote from the bonding pads (31).

As to claim 28, Takeuchi discloses in Figs. 1-4, an integrated circuit and method for testing function circuitry of an integrated circuit comprising: functional circuits (8, 9 of figure 1); means (30-33 of figure 1) for bonding wires to the functional circuitry (8,9 of figure 1); means (Vcc) for applying one or more test signals to the functional circuitry (8,9 of figure 1), wherein the bond pad (31 of figure 1) are not contacted by probe pins.

Allowable Subject Matter

5. Claims 1-10, and 33-38 are allowed.

As to claim 1-10 and 33-38, the prior art does not teach the integrated circuit having multiplexing circuitry between the probe pad and the bond pads, the multiplexing circuitry for multiplexing signals between the probe pad and each of respective portions of the functional circuitry, thus allowing the respective portions of functional circuitry to be tested using the probe pad and without any contact of the plurality of bond pads by a probe needle; in combination with the other claimed features.

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Response to Arguments

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6. Applicant's arguments with respect to claims 1-17, 28, 33-38 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X Nguyen whose telephone number is (571) 272-1967. The examiner can normally be reached on 8:30am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN 2/12/04